

What is claimed is:

1. A detachable member for use in an image forming device including an electrical connection section, the detachable member comprising:

5       a housing that is mountable in the image forming device by moving in a mounting direction and removable from the image forming device by moving in a removal direction, the housing substantially encompassing an interior; and

10       a conductive member that is connected to the housing, the conductive member moving in a contact movement direction under contact by the electrical connection section while the housing is being mounted in the image forming device and electrically connecting with the electrical connection section of the image forming device while the housing is  
15       mounted in the image forming device, the contact movement direction being from outside the housing toward the interior of the housing and orthogonal to the mounting direction and the removal direction.

2. The detachable member as claimed in claim 1,  
20       further comprising an operation member that operates under application of a bias, wherein the conductive member includes:

25       a first contact point that electrically connects with a bias supply member of the electrical connection section of the image forming device while the housing is mounted in the

image forming device;

a second contact point that is electrically connected with the operation member; and

a connection member that connects the first contact point and the second contact point to each other, the first contact point being positioned downstream from the second contact point with respect to the mounting direction.

3. The detachable member as claimed in claim 2, wherein the operation member is rotatably supported on an axial shaft, the shaft having an end surface, the second contact point being electrically connected with the end surface of the shaft.

4. The detachable member as claimed in claim 2, wherein the first contact point is movable between a mounted position and a non-mounted position, the first contact point being in the mounted position while the housing is mounted in the image forming device and in the non-mounted position while the housing is not mounted in the image forming device, the mounted position being farther than the non-mounted position in the contact movement direction.

5. The detachable member as claimed in claim 4, wherein the connection member generates an urging force that urges the first contact member into the non-mounted position, contact between the first contact member and the electrical connection section overcoming the urging force of the

connection member.

6. The detachable member as claimed in claim 2, wherein the first contact point is a separate member from the connection member.

5        7. The detachable member as claimed in claim 2, further comprising a protruding member that prevents the first contact point from contacting the image forming device during mounting of the housing in the mounting direction until the first contact point reaches the bias supply member  
10 of the image forming device.

8. The detachable member as claimed in claim 2, further comprising a protecting member that protects the first contact point.

9. The detachable member as claimed in claim 2,  
15 wherein the operation member includes a rotatable connecting portion for electrically connecting with the second contact point, and further comprising a cover for covering the second contact point.

20        10. The detachable member as claimed in claim 2, wherein the first contact point is provided on a surface of the housing, the operation member including a drive force input portion for inputting drive force from the image forming device, the drive force input portion located at a position of the housing so that the drive force input  
25 through the drive force input unit urges the surface of the

housing that is provided with the conductive member toward the image forming device.

11. The detachable member as claimed in claim 10, wherein the drive force input unit and the first contact point are disposed at opposite sides of the housing with respect to the contact movement direction.

12. The detachable member as claimed in claim 2, wherein conductive member further includes a sliding contact member that contacts the electrical connection section of the image forming device while the housing is being mounted into the image forming device, the sliding contact member being a separate member from the first contact point.

13. The detachable member as claimed in claim 2, wherein the first contact point slides along a slide contact surface of the electrical connection section while the housing is being mounted into the image forming device, and further comprising cleaning member that cleans the slide contact surface of the electrical connection section.

14. The detachable member as claimed in claim 1, wherein the conductive member includes a slanting portion for guiding the housing during mounting of the housing in the mounting direction.

15. The detachable member as claimed in claim 1, further comprising a guide member that guides the housing while the housing is being mounted in the image forming

device, the conductive member being provided substantially within the guide member.

16. The detachable member as claimed in claim 15, further comprising an operation member that operates under application of a bias, wherein the conductive member includes:

a first contact point that electrically connects with a bias supply member of the electrical connection section of the image forming device while the housing is mounted in the image forming device;

a second contact point that is electrically connected with the operation member; and

a connection member that connects the first contact point and the second contact point to each other, the first contact point being positioned downstream from the second contact point with respect to the mounting direction, wherein:

the guide member includes a guide surface for sliding against the electrical connection section of the image forming device while the housing is being mounted in the image forming device; and

the operation member, the second contact point, and the connection member are in the contact movement direction from the guide surface, and at least a portion of the first contact point is disposed in a direction opposite from the

contact movement direction from the guide surface, while the housing is not mounted in the image forming device.

17. A developing unit comprising the detachable member claimed in claim 1.

5           18. A process unit comprising the detachable member claimed in claim 1.

19. An image forming device comprising:

a mounting section including an electrical connection section;

10           a detachable member that is mountable in the mounting section by moving in a mounting direction and removable from the mounting section by moving in a removal direction, the detachable member including:

15           a housing, the housing substantially encompassing an interior; and

20           a conductive member that is connected to the housing, the conductive member moving in a contact movement direction under contact by the electrical connection section while the housing is being mounted in the mounting section and electrically connecting with the electrical connection section while the housing is mounted in the mounting section, the contact movement direction being from outside the housing toward the interior of the housing and  
25           orthogonal to the mounting direction and the removal

direction.

20. The image forming device as claimed in claim 19,  
wherein the electrical connection section is formed with a  
slanted surface for guiding the detachable member while the  
housing is being mounted in the mounting section.

21. The image forming device as claimed in claim 19,  
further comprising:

a developer bearing member provided in the detachable  
member, the developer bearing member bearing developer;

an image bearing member that bears a developer image  
developed by developer from the developer bearing member;

a contact/separation unit that moves the detachable  
member horizontally between a contact position and a  
separated position, the developer bearing member being in  
contact with the image bearing member while the detachable  
member is in the contact position and separated from the  
image bearing member while the detachable member is in the  
separated position; and

a bias supply member provided at the electrical  
connection section, the bias supply member supplying a bias;  
wherein the conductive member includes a first contact point  
that electrically connects with the bias supply member while  
the contact/separation unit moves the detachable member into  
the contact position and that does not electrically connect  
with the bias supply member while the contact/separation

unit moves the detachable member into the separated position.

22. The image forming device as claimed in claim 19, further comprising a bias supply member provided at the electrical connection section, the bias supply member  
5 supplying a bias, the conductive member contacting the bias supply member after the conductive member moves in the contact movement direction and while the housing is mounted in the mounting section.

23. The image forming device as claimed in claim 19,  
10 further comprising a guide member that guides the detachable member while the detachable member is being mounted in or removed from the mounting section.

24. The image forming device as claimed in claim 23, further comprising a bias supply member provided at the  
15 electrical connection section, the bias supply member supplying a bias, the guide including a guide surface that the conductive member slides against while the detachable member is being mounted in or removed from the mounting section, the guide surface being disposed substantially at  
20 the same position as the bias supply member with respect to the contact movement direction.

25. The image forming device as claimed in claim 23, further comprising a bias supply member provided at the  
electrical connection section, the bias supply member  
25 supplying a bias, the guide including a guide surface that



the conductive member slides against while the detachable member is being mounted in or removed from the mounting section, the guide surface being disposed farther than the bias supply member in the contact movement direction.

5           26. The image forming device as claimed in claim 19, wherein the electrical connection section includes a slide contact surface, the conductive member sliding along the slide contact surface while the detachable member is being mounted into the mounting section, and further comprising  
10       cleaning member that cleans the slide contact surface of the electrical connection section.